

January 16, 04

Indirect Immunofluorescence for *in situ* localization of SmGPCR in *S. mansoni*

The antibody developed to localize SmGPCR was specifically raised against il3 (the 3rd intracellular loop) and thus, the samples require permeabilization first to allow the antibody entry. Thus, **Triton X-100** was used for this purpose in all steps.

* **Fixative solution:** acetone (stored in the freezer) in water or acetone in PBS (3ml cold acetone +10ml water).

* **Blocking solution:** 5% Goat serum in PBS, pH 7.4 + 0.5% Triton X-100

* **Washing buffer:** PBS

* **1ry Ab solution:** 1:100 of rabbit α SmGPCR IgG in 0.5% Triton X-100 in PBS.

* **2ry Ab:** 1:300 of Goat α rabbit IgG –fluorescin labeled in 0.5% Triton X-100 in PBS.

Positive rabbit α SmGPCR IgG: The lyophilized rabbit α SmGPCR IgG is reconstituted in 400 μ l 1X PBS, pH 7.4 and used in 1:100 in 5%goat serum +0.5% TritonX-100/PBS.

Preadsorbed 1ry Ab: the positive antibody is incubated with 1mg/ml recombinant purified il3 antigen in 1:1 ratio for 3hours (or overnight) before using it in the Ab step (#5, below) at 1:50, instead of 1:100.

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- (1) Cercarial bodies (after or before acetabular gland evacuation) or schistosomula (after washing out of the culture medium) are fixed in a very cold acetone in water (or PBS) in 15ml falcon tube for 2-3 days at 4°C in the end-over-end rotor.
 - (2) Wash with 1X PBS to get rid of acetone 5times (each is for 10minutes incubation and 10min centrifugation at 1400 rpm using Sorvall centrifuge).
 - (3) Block in 5% goat serum and 0.5% Triton X-100 in PBS for 2days at 4°C in the end-over-end rotor.
 - (4) Wash for 5times as in step 2.
 - (5) Incubate with the **1:100** positive 1^{ry} antibody (or ***preadsorbed** one*) in 5%goat serum and 0.5% Triton X-100/PBS or use only 5%goat serum and 0.5% Triton X-100/PBS as a negative control (i.e. absence of 1ry Ab.) for **3-4 days**, at 4°C in the end-over-end rotor.

- (6) Repeat step 2.
 - (7) Add the commercial labeled 2^ory Ab (goat α rabbit IgG –fluorescein labeled) as **1:300** in 5% goat serum and 0.5% Triton X-100/PBS for **2-3days**, at 4°C in the end-over-end rotor. **Wrap with aluminum foil (since the labeled 2ry Ab is light sensitive).**
 - (8) Repeat step 2. **Beware to cover the falcon tubes with aluminum foil during washings to protect the labeled samples from bleaching.**
 - (9) Last step of washing, centrifuge in eppendorf tubes using our lab bench centrifuge to collect the pellet for easily mounting.
 - (10) Mount a drop of the pellet in a clean slide, add a drop of mounting medium (sigma) and add the cover slip and seal it with nail polish to protect from rapid bleaching. Keep away from light.
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